

DART SERVICE BULLETIN SB18-4

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It has come to Dart's attention that a QD3072-46 Receptacle on the QB21308 Assembly Screen manufactured by Pall Aerospace as part of the D350-822-011/-013 PA100 PUREair System may have come loose in service, may have been ingested during aircraft ground runs and may have caused FOD damage to the engine on that aircraft.

Following this recent incident, Dart recommends that operators with the D350-822-011/-013 PA100 PUREair System installed on their aircraft take the following action PRIOR TO THEIR NEXT FLIGHT.

1. Remove the Upper Engine Cowl per the Aircraft Maintenance Manual.
2. Remove the Air Intake Seal and the entire QB21308 Assembly Screen by removing qty(22) fasteners washers per the Aircraft Maintenance Manual. Retain hardware.
3. Inspect the 1/4 turn fasteners for wear and/or bending damage from the Transition Duct, particularly if the D350-822-011/-013 kit has been installed on an aircraft with dual hydraulics and the D5090-041 Duct Assy has been installed. Inspect the D5090-041 Duct Assy for evidence of impingement and correct alignment with the seal and FOD screen. If wear and/or bending damage and/or misalignment is observed, contact Dart Customer Support immediately for disposition.
4. Separate the FOD screen from the QB21496 Receptacle by turning the 1/4 turn fasteners and lifting the handle per Figure 1.
5. Inspect the QD3072-46 Receptacles on the backside of the QB21496 Receptacle by applying 10-20 lb (5-10 kg) of finger pressure to ensure that they are not coming loose. A gap between the receptacle barrel and rivet plate is an indication of a loose/damaged receptacle.
6. If any of the QD3072-46 Receptacles are determined to be loose or spinning, contact Dart Customer Support immediately for disposition.
7. If the QD3072-46 Receptacles are determined to be well installed, re-install the FOD screen onto the QB21496 Receptacle. Verify that the 1/4 turn fasteners are fully engaged into the corresponding QD3072-46 Receptacles.
8. Customers who are concerned about the integrity of the QD3072-46 Receptacles may choose to replace them with bolts and non-floating anchor nuts using the DSI 9815-011 kit, which may be procured from Dart.
9. Ensure the Engine Intake is clear.
10. Reinstall the QB21308 Assembly Screen between the Engine Intake Duct and the Air Intake Seal removed at step 2 using qty(22) fasteners per the Aircraft Maintenance Manual.
11. Reinstall the Upper Engine Cowl per the Aircraft Maintenance Manual.

WARNING: It is imperative that each time the FOD Screen is removed from the intake per Section 71.5 of ICA-D350-822 to perform inspections that the qty(4) 1/4 turn fasteners are fully engaged into the corresponding Receptacles when the FOD Screen is re-installed per Section 71.6 of ICA-D350-822. Customers should try to limit the frequency with which the FOD Screen is taken in and out of the aircraft.

NOTE: The QB21308 Assembly Screen MUST be installed for flight.

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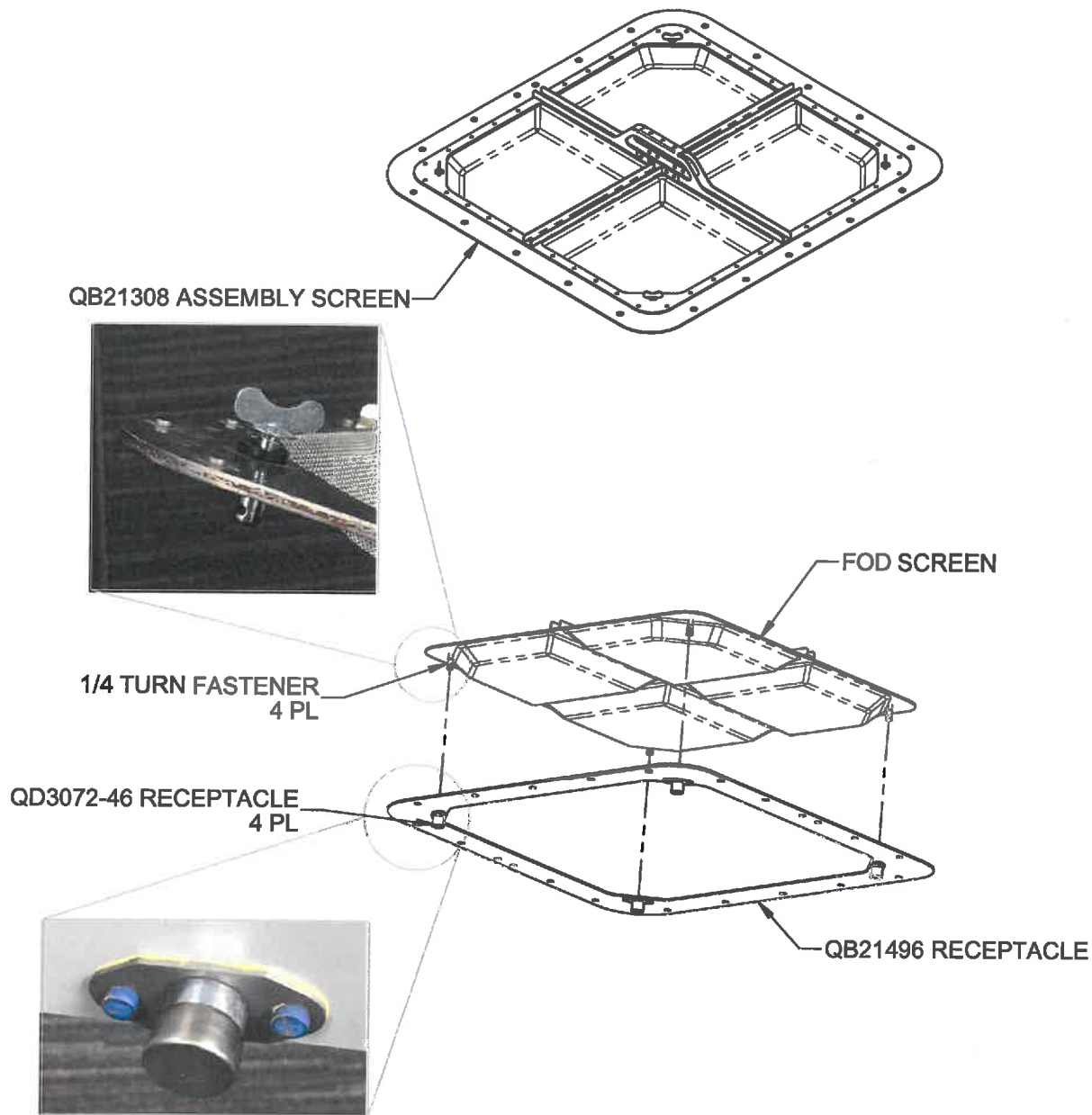


Figure 1 - QB21308 Assembly Screen

For further information, contact Dart at:

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